ABSTRACT

A sound signal detection system of the present invention that searches for a portion of stored sound signals similar to a target sound signal, includes a stored feature calculation portion that calculates a stored feature from time-series data of the stored sound signals; a target feature calculation portion that calculates a target feature from time-series data of the target sound signal; a stored feature area selection portion that selects elements corresponding to statistics larger than a threshold from stored features and calculates stored area selection features generated from the selected elements; a target feature area selection portion that selects elements corresponding to statistics larger than a threshold from a target feature and calculates a target area selection feature generated from the selected element; and a feature comparison portion that sets a comparison segment in the stored area selection features and calculates a degree of similarity between comparison segments of both the target and stored area selection features.